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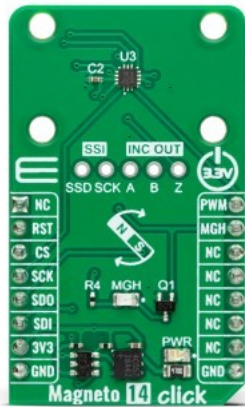www.mikroe.com

# Magneto 14 Click

PID: MIKROE-5751

**Magneto 14 Click** is a compact add-on board with an accurate and reliable magnetic device. This board features the MA735, a contactless angle sensor with ABZ, and PWM output from Monolithic Power Systems. The MA735 sensor has a 9-bit to 13-bit resolution of the absolute angle encoder. With its fast data acquisition and processing, it provides accurate angle measurements at speeds from 0rpm to 60.000rpm. The sensor can be used in both end-to-shaft and off-axis (side-shaft mounting) configurations. This Click board™ makes the perfect solution for the development of applications for automotive angle sensing, robotics, high-resolution angle encoders, and general-purpose angle measurements.

Magneto 14 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

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# Specifications

| Type | Magnetic |
|---|---|
| Applications | Can be used for the development of applications for automotive angle sensing, robotics, high-resolution angle encoders, and general-purpose angle measurements |
| On-board modules | MA735 - contactless angle sensor with ABZ, and PWM output from Monolithic Power Systems |
| Key Features | Low power consumption, highest reliability and durability, high-resolution output, operates with wide magnetic range, programmable thresholds, non-volatile memory, SSI and ABZ encoder functionalities, PWM output, and more |
| Interface | PWM,SPI |
| ClickID | Yes |
| Compatibility | mikroBUS |
| Click board size | M (42.9 x 25.4 mm) |
| Input Voltage | 3.3V |

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[Magneto 14 click example on Libstock](#)

[Magneto 14 click 2D and 3D files](#)

[MA735GGU datasheet](#)

[Magneto 14 click schematic](#)